What is claimed is:

1. A method for monitoring the amount of erosion in the wearing parts of a crusher, in which method the erosion of the wearing parts of a crusher is monitored by the crusher's automatic control system and, as erosion in the wearing parts reaches a predetermined depth, the control system initiates predetermined actions, which actions comprise issuing an alarm, **characterized** in that information on the amount of erosion in a wearing part of the crusher is transmitted wirelessly to the automatic control system of the crusher and that the predetermined actions further comprise at least one of the following actions: stopping the crusher or stopping material infeed to the crusher or ordering a wearing part for the crusher.

2. The method of claim 1, **characterized** in that the predetermined depth of erosion of the wearing parts is such that the crusher operation can be continued using the old wearing part during the delivery time of the new wearing part.

3. The method of claim 1 or 2, **characterized** in that a plurality of separate wear sensors connected to the crusher control system is utilized so that different kind of actions are initiated depending on the sensor of the system issuing an alarm.

4. An apparatus for monitoring the amount of erosion in the wearing parts of a crusher, the apparatus comprising an automatic control system of the crusher, and at least one wear sensor mounted on the wearing part of the crusher, **characterized** in that said wear sensor is equipped with means for transmitting the measurement signal wirelessly to the automatic control system of the crusher and with a self-contained energy source.

5. The apparatus of claim 4, **characterized** in that the self-contained energy source comprises means for converting kinetic energy into electrical energy.

6. The apparatus of claim 4, **characterized** in that the self-contained energy source comprises a piezoelectric device for generating electrical energy.

7. The apparatus of claim 4, **characterized** in that the self-contained energy source comprises means for capturing electrical energy from an electromagnetic field launched about the crusher.

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8. The apparatus of any one of claims 4-7, **characterized** in that the wear sensor comprises a conductor embedded in an insulator.